

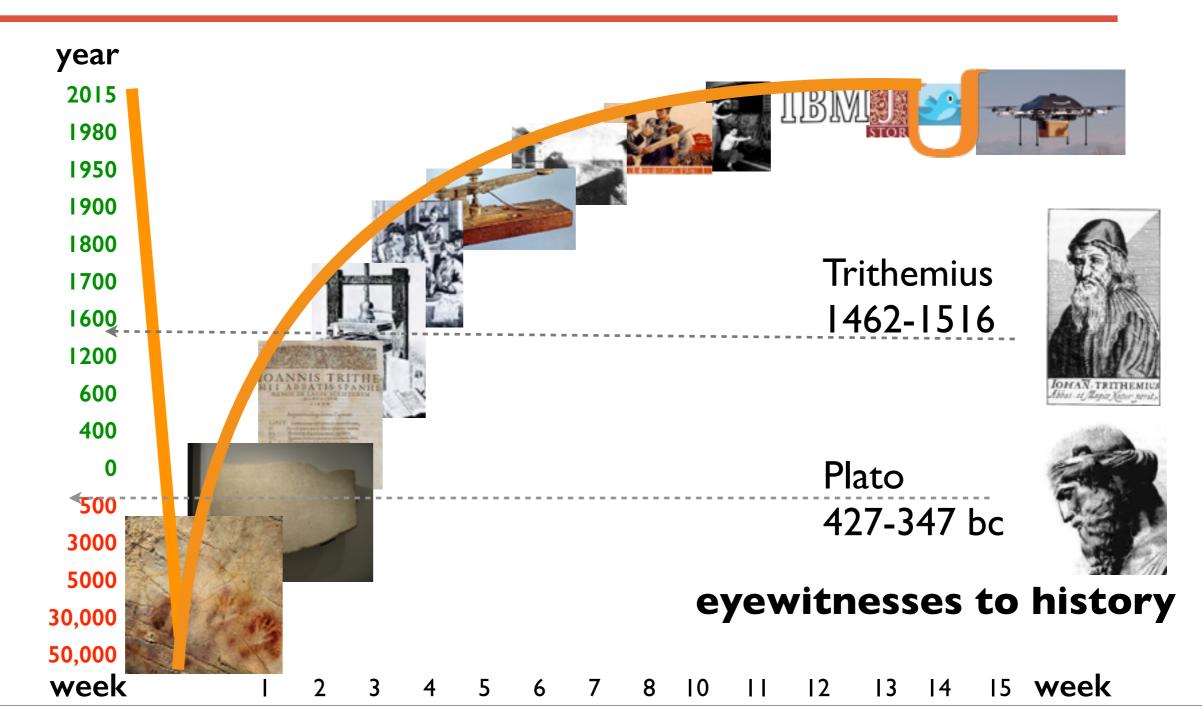
manuscript "culture"

the authority of the text and a "missing revolution"

history of information February 6, 2014



where we're going



new technologies

how to think about determinism

what happened?

what was involved?

what did (or did not) come before?

what did (or did not) follow?

what did (or did not) contribute?

what happened elsewhere?

what's likely to be underestimated?

what was necessary, what sufficient?

unintended consequences?

overview

eyewitnesses
technologies of the book
authority of the book
unintended consequences

now/then

eyewitnesses
technologies of the book
authority of the book
unintended consequences



PLATO SAID THE WRITTEN WORD WAS PRONE TO MISINTERPRETATION. EXHIBIT A: ALTERNATIVE INVESTMENTS.

Plato warned us about the ambiguity of words. So he wouldn't be surprised to learn that investment jargon can often be misconstrued.

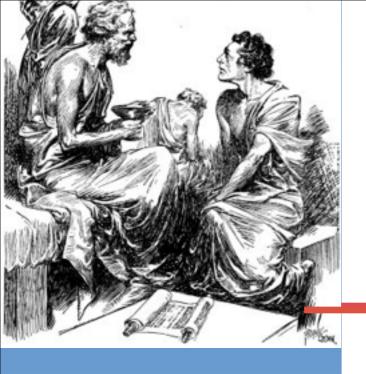
At AllianceBernstein, our philosophy couldn't be clearer. We believe every investor should understand how investments like alternatives work—and what they might bring to a portfolio.

For decades, we've worked hard to untangle the

intricacies of capital markets and to develop a wide range of diversification

strategies. Of course, we couldn't do either without deep research and investment capabilities.

It doesn't matter how well-crafted something is if it doesn't make sense to you. See how we can help simplify the complex nature of non-traditional mutual funds. Visit us at alliancebernstein.com/go/alts.



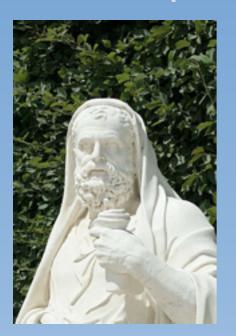
Plato's perspective

eyewitnesses

technologies

authority

consequences



that "new technology" -- writing

cast of characters

Socrates

Phaedrus

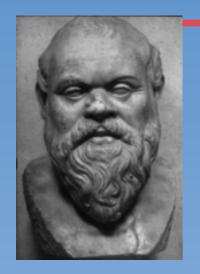
Lysias

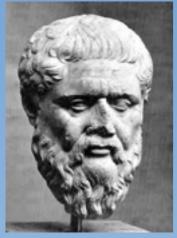
Thamus

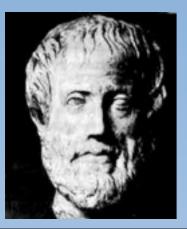
Theuth

Thebes

the standard view?





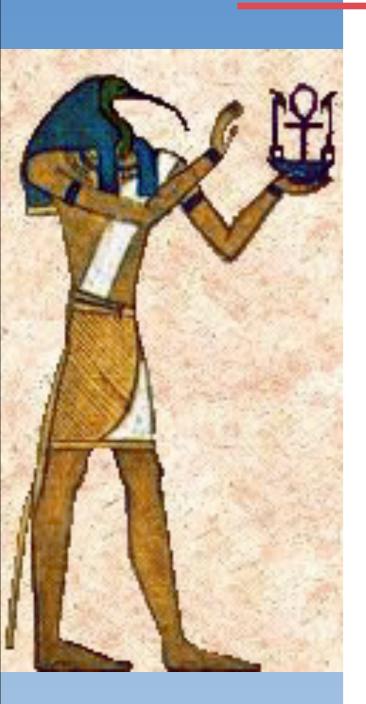


Socrates didn't like books

"I am a lover of learning ... Men lead hungry animals by waving a branch or some vegetables before their noses, and it looks as if you will lead me all over Attica and anywhere else you please ... by waving the leaves of a speech [book] in front of me"

"Plato ...had such a love of books that he bought three books ... at the price of 10,000 denarii. Aristotle ... acquired a few books for three Attic talents which amounts to 72,000 nummii."

what good is writing?



Theuth: "An accomplishment ... which will improve both the wisdom and the memory of the Egyptians ...

Thamus: "The discoverer of an art is not the best judge of the good or harm which will accrue to those who practice it. ... Those who acquire it will cease to exercise their memory and become forgetful; they will rely on writing to bring things to their remembrance by external signs instead of on their own internal resources."

Thamus updated?

Published Online July 14 2011 Science 5 August 2011:

Vol. 333 no. 6043 pp. 776–778 DOI: 10.1126/science.1207745 < Prev | Table of Contents | Next

WHATTH

REPORT

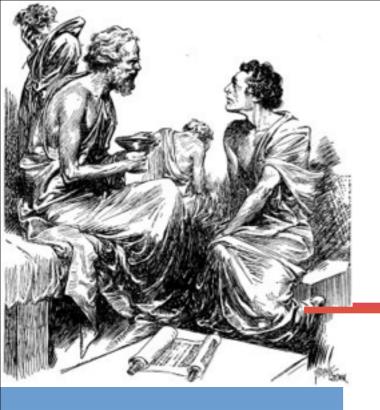
Google Effects on Memory: Cognitive Consequences of Having Information at Our Fingertips

Betsy Sparrow 1,*, Jenny Liu2, Daniel M. Wegner3

- Author Affiliations
- To whom correspondence should be addressed. E-mail: sparrow@psych.columbia.edu

ABSTRACT

The advent of the Internet, with sophisticated algorithmic search engines, has made accessing information as easy as lifting a finger. No longer do we have to make costly efforts to find the things we want. We can "Google" the old classmate, find articles online, or look up the actor who was on the tip of our tongue. The results of four studies suggest that when faced with difficult questions, people are primed to think about computers and that when people expect to have future access to information, they have lower rates of recall of the information itself and enhanced recall instead for where to access it. The Internet has become a primary form of external or transactive memory, where information is stored collectively outside ourselves.



Socratic concerns

eyewitnesses technologies authority consequences

Phaedrus

memory

speeches

rhetoric

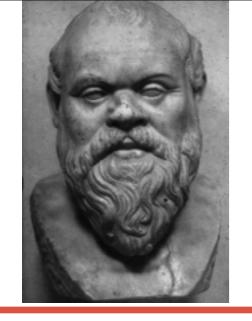
sophists

writing

wisdom

truth [and authority]

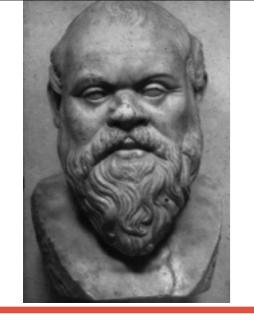
dialectic



writing & wisdom

"Writing circulates equally among those who understand the subject and those who have no business with it."

"for wisdom, your pupils will have the reputation for it without the reality; they will receive a quantity of information without proper instruction, and in consequence be thought very knowledgeable when they are for the most part quite ignorant."



dialectic & truth

"Writing involves a similar disadvantage to painting ... if you ask [words] what they mean ... they simply return the same answer over and over ... writing cannot distinguish between suitable and unsuitable readers ..."

"when a man employs the art of dialectic, and, fastening upon a suitable soul, plants and sows in it truths accompanied by knowledge ... such truths can defend themselves ..."

"Written/graven on the soul of the hearer"



remember?

"But though books are easily procured, yet, even in this age of information, there are thousands in the lower classes that cannot read. Besides, it is a well-known truth, that the same precepts inculcated by a living instructor, adorned by a proper oratory, enforced by a serious and authoritative manner, produce a powerful effect, not to be experienced in solitary retirement."

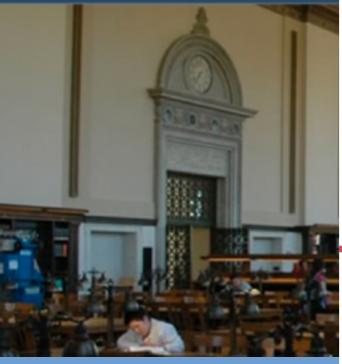
— Vicesimus Knox, Essays Moral and Literary, 1778

change of mind?

"Give them fair and full information, and they will do the thing that is right in consequence of it."

— Vicesimus Knox, Spirit of Despotism, 1795

webcast.berkeley

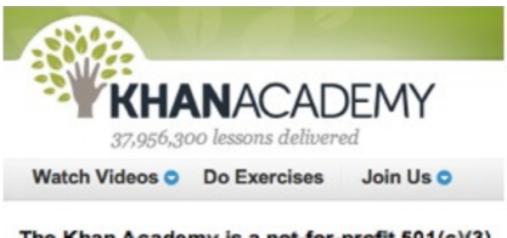


eyewitnesses
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coming up: social implications

dialectics

"The people's University of the Air will have a greater student body than all of our universities put together." --RCA, 1932



The Khan Academy is a not-for-profit 501(c)(3) with the mission of providing a world-class education to anyone, anywhere.

We are complementing Salman's ever-growing library with user-paced exercises—developed as an <u>open source project</u>—allowing the Khan Academy to become the free classroom for the





overview

eyewitnesses (2)

technologies of the book authority of the book unintended consequences



the set up

eyewitnesses
technologies
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consequences

Trithemius (1462-1516)

native of Trittenheim (B)
Abbot of St Martin's,
Sponheim (A),1483-1505







XVI. Exhartational fludium of announfordendorum librarion.

EPISTOLA

IOHANNIS TRITHEMII ABBATIS SPANHE-MENSIS AD DOMINUM GERLACUM ABBATEM TVITIENSIS CANOBIL



ENERABILI & amanifime patri Domine Corlare de Freislach Ab. bate Tentren for dissis familio Benesiallo, frater Ishanner de Testendem Aunine dibet to Spendere, etmine ordine falsere de carindres. Cameraer de annale capitale Erfardas selebrais famil reserventes de maisflate disinarum forpiurarum varia innium traffaremus. Er per parum filisado rem angram enligimem quendem gleris/em fuste dicercome : persos ... à me sum mada certaini infantie, ve coli eliquia feròcesme, que taet ad à...

SIMI VIRI, REVERENDIQUE IN CHRI tho parris, domini lohinin de Trietenhem Abbatis Span hemenfis, Liber de ecclesiafticis feriptoerbus



Lemens fan (Le Romane ecclefie quienus à beato Petro) y quiboldam placet) ordinarus episcopus, natione Romanus, y is fan clus & deo dilectus, morum quo qui decore ornatus, cuius vita & passio in scripturis ecclesiaticis habentar, sedit in ponusicaru nouem annis & decem diebus. In existinarus nouem annis & decem diebus, la existinarus nouem annis est de com diebus, la existinarus est de com diebus, la existinarus est de com diebus, la existencia de com diebus, la existencia de com diebus, la existencia de companyon de compa profide Christi relegatus animo côstanti, Obije anno Traiani Cefaris tertio, domi-

ni aut cetelimotertio, Hicheatifiimos mae

mi alt citefimoteritio. Hicbeatifimos mar
tyr nonnullas fide & cruditione plenas fertur in persona Romana
ecclesia scriptisse epistolas, De quibus extât percopua
Ad ecclesiam Corinthiorum Epistola vna.
Ad Iacobi quoqi apostolum Epistola vna.
Ad Iacobi quoqi apostolum Epistola vna.
Ad Iacobi quoqi apostolum Epistola vna.
Item disputationis Petri liber vnus.
Hac auté duo vleima volumina inter apocrypha coputantur, vt pa
ter, 15, dist. Si ca Romana. Ferunt etus & alize epis, led apocrypha;
lonysius Ariopagita Athenicus, epistologhus integnis,
per bescum Paulum apostolum conuerias ad sidem, primus vt quabus dam placet) Athenicus; epistopus or dina
tus ett, vir eximize sanctitatis & incomparabila doctrinar, Hunc post decessum apostoloris, beatus Ciemena Romana vrbu episcopus cu Rustico pres bytero & Eleutherio diacono ad fidicanda genhus verba dei misti in Festiam, alioin cius soci ordinato
episcopo. Scriptit autem graco fermone multa practara opuscula,
De qubus apud latinos tantum inueni subiecta.
De coclesistica hierarchia.

lib.t. Sacerdott quidem nit.

De ecclefiaftica hierarchia. Demystica theologia

lb.v.nl. Omne datű opcimű &.
lb.l. Szerdozi quidem nít,
lb.l. Nunciam vir dei polt,
lb.l. Teinitm supriseltant,



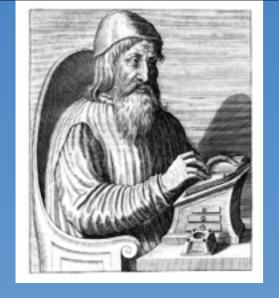
the standard view?

Trithemius didn't like print

"It is my greatest pleasure to own and to know all books I ever saw or which I knew to have appeared in print ... To my regret ... money was always lacking ... for the satisfaction of my passion for books."

1483: 48 books in monastery library

1505: 2,000



reading between the lines

eyewitnesses
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internal battles

contemplation, manual labor, preaching
vs
scribal practice - "engraving" through writing
"The dedicated and sincere scribe ... will
not receive less than the preacher"

book collecting

"There are some who reproach lovers of books for having ... too many"

Monks "are so
detested that it is
considered bad luck
if one crosses your
 path"
 Erasmus,
In Praise of Folly,
1511

external battles



humanism & the university

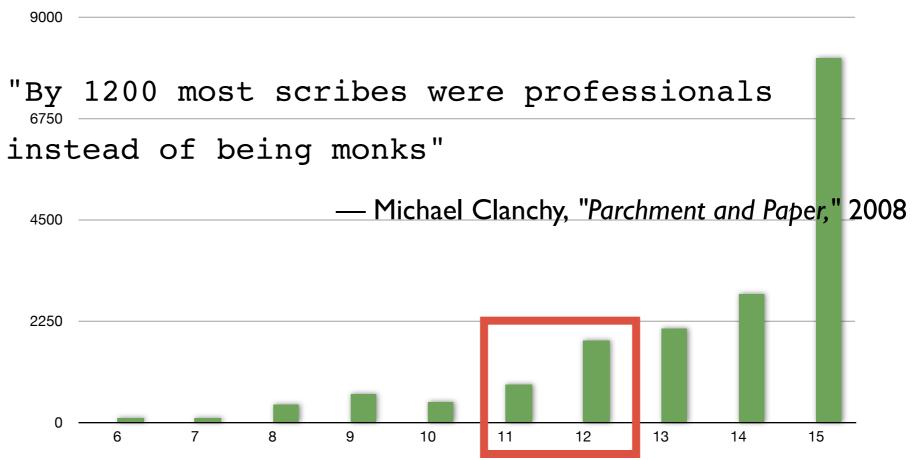
"In the 700 years between the Fall of Rome and the 12th century, it was the monasteries which enjoyed an almost complete monopoly of book production and so of book culture.... from the end of the 12th century a profound transformation took place ... reflected in the founding of the universities and the development of learning."

-Febvre & Martin, The Coming of the Book, 1984

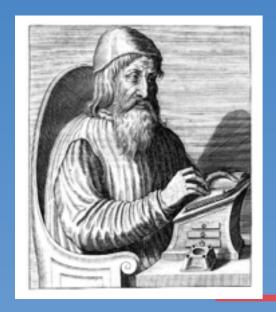


rising demand, but ...

Manuscript Production in Europe, 6th-15th century



Buringh & van Zanden, "Charting the 'Rise of the West': Manuscripts and Printed Books in Europe" Journal of Economic History 2009



"... not obvious at first ... that printed books would universally supersede the use of manuscripts ..." Knox, Essays, 1782

other concerns

a reasonable lament?

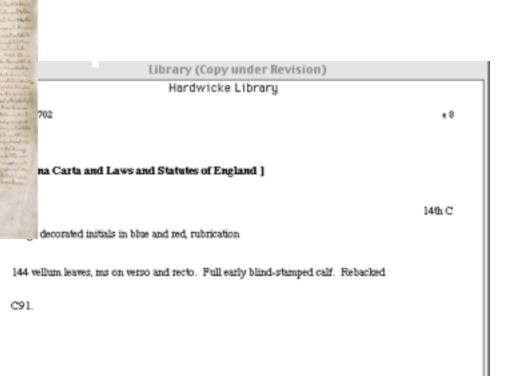
"The written word on parchment will last a thousand years. The printed word is on paper. How long will it last? The most you can expect of a book of paper to survive is two hundred years. Only time will tell."



how long?

magna curta?

eyewitness
technolog
author
consequence



overview

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material matters

stone

clay

wood

wax

the "immutable mobile"

parchment/vellum

--Bruno Latour

papyrus

palm

silk

paper



material changes

geographical determinism?

parchment at Pergamum
papyrus at Alexandria
palm in India (pattachitra)
silk in China

"the parchment alone in a fine Bible, even allowing for the shorthand script of the day, represented a flock of perhaps three hundred sheep"



-- John North, God's Clockmaker, 2005

technological leaders?



Ts'ai Lun 62-121

paper

China, 200 bce

Korea, 3d century ce

India, 5th century

Japan, early 7th century

Islam, 8th century

Jews, 10th century

Byzantium, 9th century

-along the "Silk Road"

w. Europe:

Spain 1056 [?]

Italy 1255

France 1348

Germany 1390

Switzerland 1411

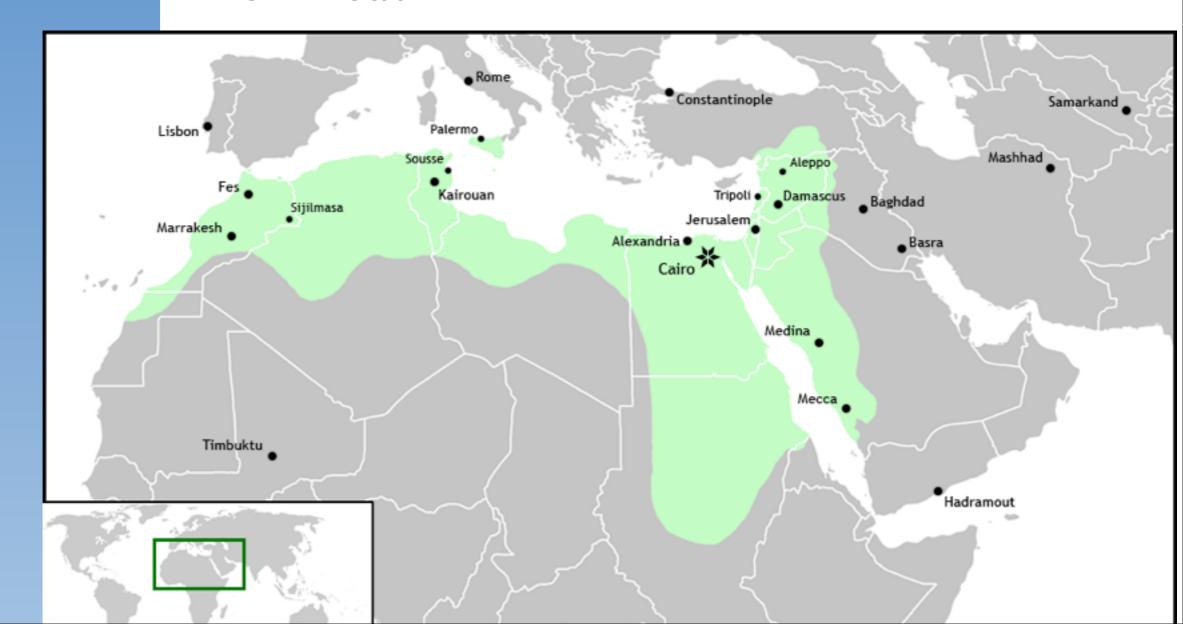
Britain 1494

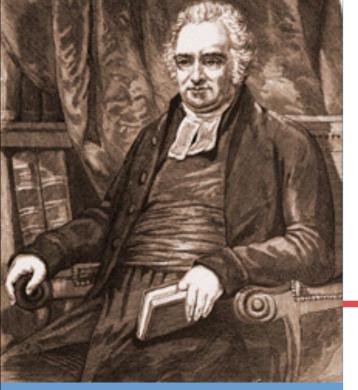
Russia 1690

USA 1690/1

dark ages

silk road

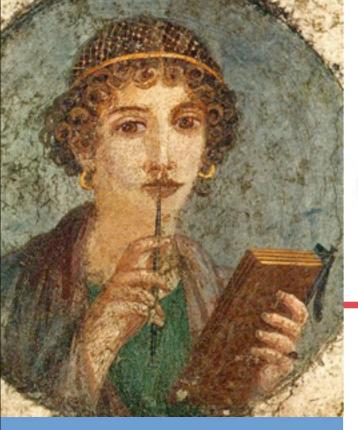




progress?



"The stone, the palm-leaf, the biblos or bark of the linden tree, the leaden tablet, the papyrus, the parchment, the pugillares ... progressive advancement ... At a very late period, a substance formed of macerated linen ... superior in beauty, convenience, and duration and better adapted to the purposes of literature ... By the ease with which it is procured ... recused the ancient authors from the possibility of oblivion."







missing "revolution"?

rolled to flat

"the revolution between the second and fourth centuries that changed the very structure of the book by substituting the codex for the roll"

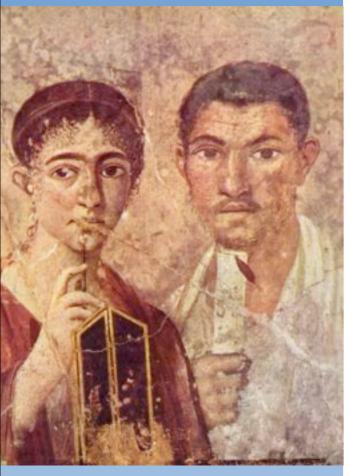
--Roger Chartier, Forms and Meaning, 1995

"Homerus ... Vergilius ... Cicero ... Titus Livy ... in membranus...quam brevis immensum cepit membrana"

—Martial (c38-103), Epigrams

"the pugillares"

--Knox



Pompeii, c 79 ce



superior technology?



one handed

two-sided

pagination

marginalia

footnotes

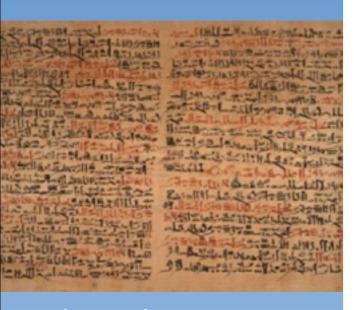
indexes

random access





trivializing the past?



Edwin Smith Papyrus
c. 1600 bce
NY Academy of Medicine

handy
pages
divisions
(incipits,
explicits,
colophons,
sillyboi)







formal changes

parchment to paper

China, 200 bce

Korea, 3d century

India, 5th century

Japan, early 7th century

Islam, 8th century

Jews, 10th century

Byzantium, 9th century

Western Europe, 11 century

scroll to codex

Christians, 2d century

Islam, 8-9th century

Jews, 8-9th century

China, 9th (butterfly)
13th (thread binding)

Korea, ?12th century (sutra binding)

Japan 18th century

meanwhile ...

to the manor born

Earl's Court Manor Roll, 1554—enrolled, roll call



"Why medieval England ... kept its records predominantly in rolls remains a mystery."

—Clanchy, From Memory to Written Record, 1993

scroll to codex

Christians, 2d century

Islam, 8-9th century

lews, 8-9th century

China, 9th (butterfly) 13th (thread)

Korea, ?12th century (sutra binding)

Japan 18th century



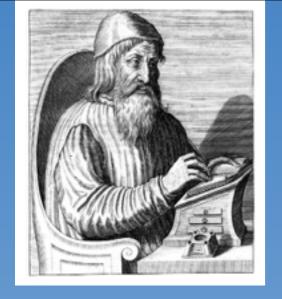
what does this say of ...?

"The **need** for readily available information, which had been steadily rising, was accelerated by the advent of Christianity ..."

"The **need** to find information more rapidly than is possible in a papyrus-roll-form book initiated the development of the Greco-Roman codex in the second century ..."

- Frederick Kilgour, The Evolution of the Book, 1998





caveat lector

"In late antiquity, all **authority** was founded on Scripture...and the highest authority, the authority of the church, was represented by the codex."

-Guglielmo Cavallo, "Du Volumen au Codex," 1997

"[P]agans ... continued to regard it as a culturally inferior form. In contrast, the great majority of Christian texts were already in the form of codices."

-Peter Stallybrass, "Books and Scrolls," 2002

"[A Jew] took an oath 'on his roll' ... whereas a Christian swore on the book of the Gospel."

-Michael Clanchy," From Memory to Written Record, 1993

overview

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written receipts

eyewitnesses
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"The oldest writings to survive to our time were inscribed five thousand years ago by temple bureaucrats recording economic transactions ... crops, animals, manufactured goods"

-- Lerner, The Story of Libraries, 1998

"In the twelfth century... magnates used documents occasionally ... In the thirteenth .. laymen began to convey property to each other by charter; in the latter half ... this practice extended below the gentry class to some peasants.

- Clanchy, From Memory to Written Record, 1993

more sceptical

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Hadith & Isnäd

"documenting the authenticity of all transmission of knowledge ... truth does not reside in documents, however authentic, ancient, or well-preserved, but in authentic human beings ... Documents alone, without a line of persons possessed of both knowledge and righteousness ... are useless ... a book ... of no use without ... certification of master"

—Graham, "Traditionalism in Islam," 1993



what/who to trust?

Henry I vs Anselm

"We don't accept the evidence of monks bishops, why should we accept that of a sheepskin?"



trustworthy?

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donations of Constantine (c. 750-800)



truthiness

eyewitnesses
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documentary problems

"If you ask [documents] what they mean ... they simply return the same answer over and over again ..."

"Truth is not enough for you; you think it matters who the speaker is and where he comes from. ... "

--Phaedrus

medieval contracts

eyewitnesses technologies authority consequences





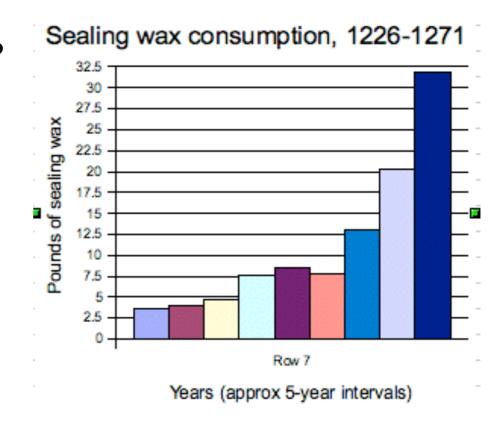
sealing the deal

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text or matter?







chirograph

eyewitnesses
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10 13 DIVISION 37. 14963.554 4216 258 2562-258 602 506 BROADWAY7060 7059 7061 47 HENRY 7052 P 1743 A 2-494 D 699 7050 1800 4,380 639: 558 2722 3.652 P 1423 A 1-997 D 714. F 265. 317 37 MADISON 7039 7043 783. 1.95 401. 148. 3110 706 510 7030 2917. 2.542 0 1171. F 532. 24 MONROE 7031 ST 7027 3-297 7018 ST. 7017 CHERRY 7013 753.243 7006 ST. 7005 WATER 7001 57. SOUTH WARD BLOCK NUMBERS. P-POPULATION. A .- AREA IN ACRES. D.-DERSITY! NUMBER OF PERSONS PER ACRE. F .- NO. PANISIES. NATIVITY: WHEBLORED BLOCKS MAVE A PAMILIES FROM ADJACENT WARDS ARE II HELEND TENEMENT HOUSE DEPAR UNITED STATES

"Fine and Recovery:
Conveyance of
property,
7th Ward NYC, 1793

45

documenting ownership

eyewitnesses technologies authority

Title:

[Diseño del Rancho Buri Buri : San Mateo Co., Calif.]

Description:

4362 B84On verso: Deposited ... November 30th, 1860.From: U.S. District Court. California, Northern District. Land Case 101 ND, page 481; land case map D-231 (Bancroft Library). José de la Cruz Sanchez, clmt.Penand-ink and watercolor.Relief shown by shading.

Creator/Contributor:

United States. District Court (California: Northern District). Land case. 101, Related Name Indexing Term

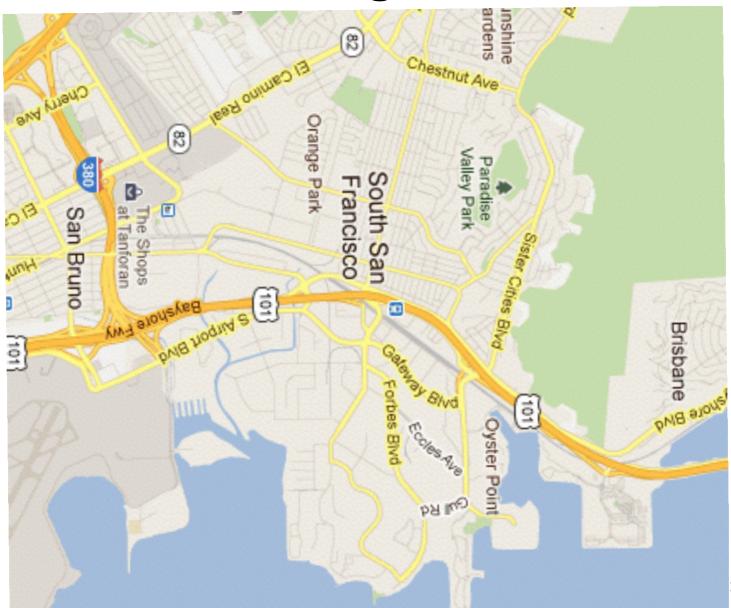
Date:

1860

Contributing Institution:

UC Berkeley, Bancroft Library

Buri Buri land grant 1827-1872



overview

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unintended consequences

quo warranto?

"No document coming from such centres of proved fabrication as Westminster, Evesham, Winchester cathedral, Chertsey and Malmesbury should be accepted at its face value without close examination. ... Ancient monasteries like Chertsey had traditionally forged charters. Now that the king was keeping copies ... abbots ensured that their forged documents were reinforced by inspection in the Chancery and enrollment among the royal records. The Chancery rolls, which were intended to prevent fraud, thus became a means of making forgeries official." -Clanchy, From Memory to Written Record





science of diplomatics



Jean Mabillon (1632-1707)

De Re Diplomatica, 1681

"the Reformation era ... bringing to light thousands of documents .. hitherto inaccessible and unknown. ... France pioneered in this new historical research ... Mabillon Montfaucon."

James Thompson,"The Age of Mabillon," 1942

from authority to ...

a guide to forgery

Mabillon "had exposed the fabricated charters of the Carmelite Father Andrew, in a model memorandum which later fell into the forger's hand, and was taken by him to heart with such good effect that he was able with a subsequent fabrication to have his revenge by planting one of his forgeries ... on Mabillon himself"

-David Knowles



"this will kill that"?

manuscript after print

accounting

music

note taking

personal communication

"subersive forms"

a real "revolution"

and so to Gutenberg

(and our first untranslated primary source)



2/11/2014: The Print 'Revolution'

Knox, Vicesimus. 1817, Essays, Moral and Literary (seventeenth edition). London.: Charles Dilly.

Read: "Introductory Remarks on the Art of Printing" pp. 76-81; "On the Circumstances which Led to the Discovery of the Art of Printing, with Miscellaneous Remarks on It" pp. 81-87; & "On the Moral, Political, and Religious Effects of Printing, with Concluding remarks" pp 87-96. [pages 85-96 in reader]

Source: Course reader

"How Luther Went Viral," 2011, The Economist, December 17,

Read: Entire article

Source: economist.com [hyperlink]

assignment

Based on his essays (and his benefit of hindsight), how would Knox have responded to the arguments of either Plato or Trithemius?